

# Couch Ordinance, inc.

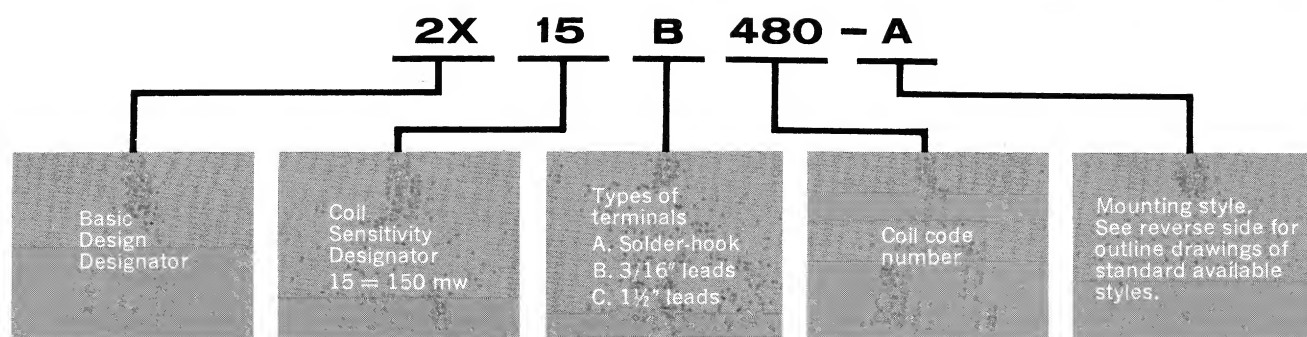
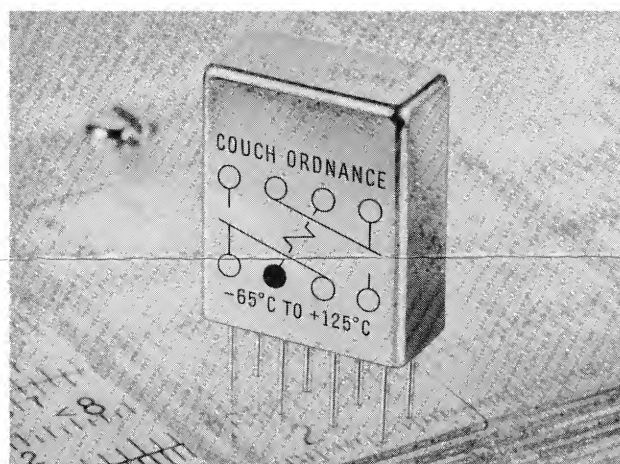
data sheet

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## TYPE 2X RUGGED ROTARY RELAY

The COUCH Type 2X relay is a small, hermetically sealed DPDT relay with 0.1" grid terminal spacing. It has been designed primarily for signal switching with other printed circuit board components. Because of the switching application, each relay is tested for low level operation.

A wide variety of terminals, coil resistance values and mounting styles are available. Only a few variations having wide application are shown. If you will send us a detailed description of your requirements, your inquiry will receive prompt attention in our engineering department.



## SPECIFICATIONS

### MECHANICAL

Weight . . . . . 0.1 oz., maximum  
 Dimensions . . . . . .2" x .4" x .5"  
 Mounting . . . . . see reverse side  
 Enclosure . . . . . hermetic seal  
 Terminals . . . . . see reverse side  
 Terminal Strength . . . 0.5 lb. pull

### ENVIRONMENTAL

Ambient Temperature - 65° to + 125°C  
 Vibration . . . 5 to 25 cps, 0.25" double amplitude  
 . . . . . 25 to 2,000 cps, 20 G acceleration  
 Shock . . . . . 75 G acceleration, 11 milliseconds  
 . . . . . minimum duration  
 Acceleration . . . . . 40 G, no contact opening

### ELECTRICAL

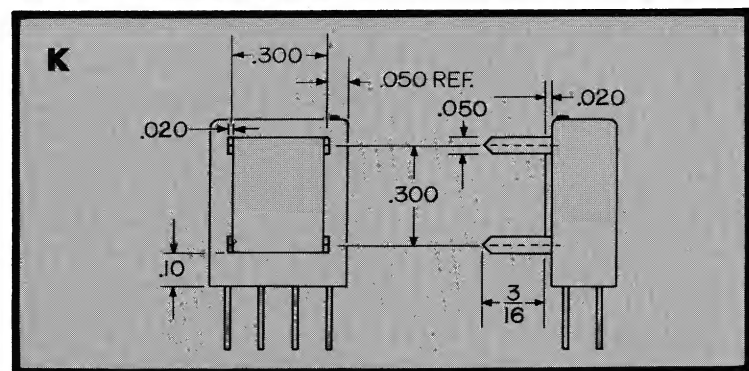
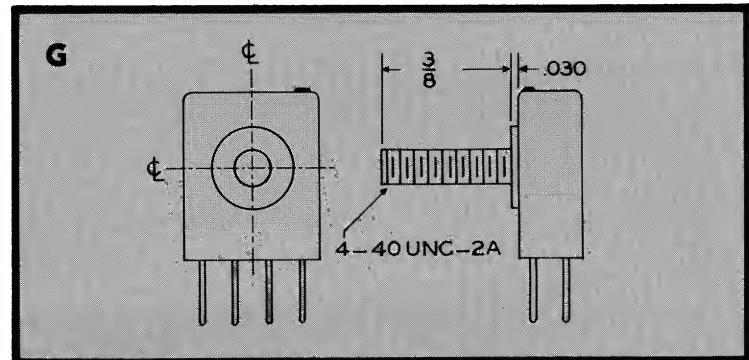
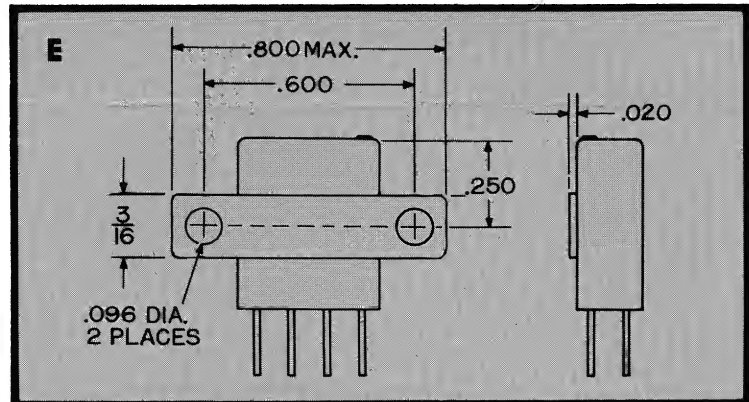
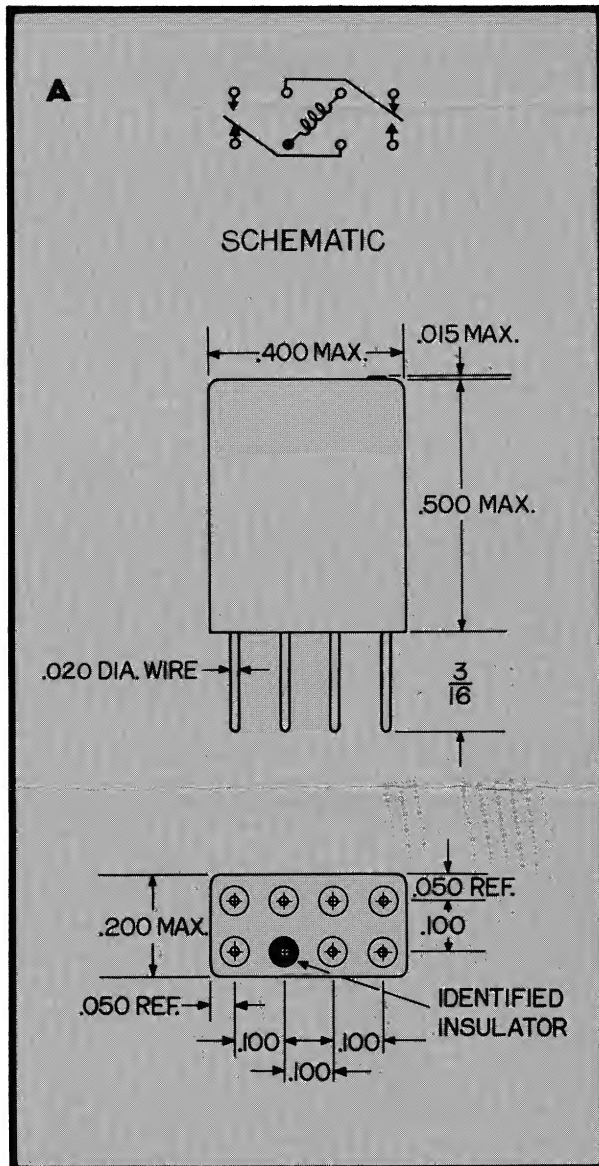
Insulation Resistance . . . 100 megohms minimum  
 Dielectric Strength . . . 500 volts rms, 60 cycles minimum  
 . . . . . except 350 volts across open contacts  
 Contacts  
 Arrangement . . . . . 2 form C (DPDT)  
 Resistance . . . . . 0.05 ohm maximum  
 Rating . . . . . 0.5 ampere, resistive load  
 . . . . . @ 30 VDC, 100,000 operations  
 . . . . . minimum.  
 Dry circuit: 5 millivolts, 10  
 microamperes, 500 ohms maximum  
 resistance, 1 million operations  
 . . . . . minimum  
 Duty Cycle . . . . . continuous  
 Operate Time . . . . . 6 ms maximum,  
 . . . . . including bounce  
 Release Time . . . . . 6 ms maximum,  
 . . . . . including bounce  
 Coil (DC only) . . . . . see coil data table

## COIL DATA

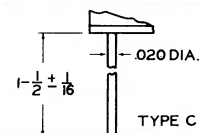
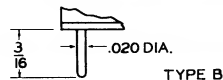
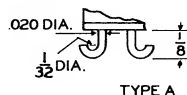
| CATALOG NUMBER | COIL RESISTANCE<br>$\pm 10\%$<br>@ 25°C | MAXIMUM PULL-IN CURRENT | MINIMUM DROP-OUT CURRENT | MAXIMUM PULL-IN VOLTAGE |         | MAXIMUM CONTINUOUS OPERATING VOLTAGE<br>@ 125°C | SUGGESTED NOMINAL OPERATING VALUE $\pm 10\%$ FOR 125°C OPERATION |
|----------------|-----------------------------------------|-------------------------|--------------------------|-------------------------|---------|-------------------------------------------------|------------------------------------------------------------------|
|                |                                         |                         |                          | @ 25°C                  | @ 125°C |                                                 |                                                                  |
|                | OHMS                                    | MA                      | MA                       | VOLTS                   | VOLTS   | VOLTS                                           | VOLTS                                                            |
| 2X15B420-A     | 60                                      | 48                      | 4.0                      | 3.3                     | 4.5     | 8                                               | 6.6                                                              |
| 2X15B450-A     | 250                                     | 24                      | 2.0                      | 6.5                     | 9.0     | 16                                              | 13.2                                                             |
| 2X15B480-A     | 1000                                    | 12                      | 1.0                      | 13                      | 18      | 32                                              | 26.5                                                             |

NOTE — Values given in shaded columns are used for all adjustments, tests and inspections.

## MOUNTING



## TYPES OF TERMINALS



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